(43) International Publication Date 3 August 2006 (03.08.2006)

(10) International Publication Number WO 2006/080043 A2

- (51) International Patent Classification:

  C07D 409/12 (2006.01) A61K 31/517 (2006.01)

  A61K 31/473 (2006.01) A61P 25/28 (2006.01)
- (21) International Application Number:

PCT/IT2006/000049

- (22) International Filing Date: 27 January 2006 (27.01.2006)
- (25) Filing Language:

Italian

(26) Publication Language:

English

(30) **Priority Data:** 60/647,498 27 January 2

27 January 2005 (27.01.2005) US

- (71) Applicant (for all designated States except US): ALMA MATER STUDIORUM- UNIVERSITA' DI BOLOGNA [IT/IT]; Via Zamboni, 33, I-40126 Bologna (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROSINI, Michela [IT/IT]; Via Bondancllo, 1, I-40013 Castelmaggiore (IT). ANDRISANO, Vincenza [IT/IT]; Via Toscanini, 8, I-40136 Bologna (IT). BARTOLINI, Manuela [IT/IT]; Via Monte Coco, 14, I-61037 Mondolfo (IT). MELCHIORRE, Carlo [IT/IT]; Via Faenza, 7, I-40139 Bologna (IT).
- (74) Agents: JORIO, Paolo et al.; c/o Studio Torta S.r.l., Via Viotti, 9, IT-10121 Torino (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
  patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ORGANIC COMPOUNDS USEFUL FOR THE TREATMENT OF ALZHEIMER'S DISEASE, THEIR USE AND METHOD OF PREPARATION

$$X \longrightarrow (CH_2)n \stackrel{1}{R} Ar \qquad (I)$$

(57) Abstract: Compounds identified by the general formula (I) are used for the treatment of Alzheimer's disease.